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APPLICATION NO	. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/058,835	01/30/2002	Thomas Richardson	UMICH-I I	2416		
23599	7590 05/16/20	06	EXAMINER			
MILLEN,	WHITE, ZELANO	VIVLEMORE,	VIVLEMORE, TRACY ANN			
2200 CLA SUITE 140	RENDON BLVD. 00	ART UNIT	PAPER NUMBER			
ARLINGT	ON, VA 22201	1635				
			DATE MAILED: 05/16/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summan		Application No. Applicant(s)							
		10/058,83	5	RICHARDSON E	RICHARDSON ET AL.				
Office Action Summary			Examiner		Art Unit				
			Tracy Vivle		1635				
The MAILI Period for Reply	NG DATE of this commun	ication appe	ears on the	cover sheet with the	correspondence ac	idress			
WHICHEVER IS - Extensions of time marger SIX (6) MONTH: - If NO period for reply - Failure to reply within Any reply received by	STATUTORY PERIOD F LONGER, FROM THE N ay be available under the provisions of from the mailing date of this comm is specified above, the maximum state of the set or extended period for reply the Office later than three months in dijustment. See 37 CFR 1.704(b).	MAILING DA s of 37 CFR 1.136 nunication. tatutory period wi v will, by statute, o	TE OF THI 6(a). In no ever ill apply and will cause the applic	S COMMUNICATIO It, however, may a reply be to expire SIX (6) MONTHS from cation to become ABANDON	DN. imely filed in the mailing date of this c ED (35 U.S.C. § 133).				
Status									
1)⊠ Responsive	e to communication(s) file	ed on 03 Ma	arch 2006						
	Responsive to communication(s) filed on <u>03 March 2006</u> . This action is FINAL . 2b) This action is non-final.								
<u>′</u>									
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Clain	•		•	• • • • • • • • • • • • • • • • • • • •		·			
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	Claim(s) <u>33-50</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.								
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	is/are objected to.								
· _ · · -	<u> </u>	tion and/or	election rec	nuirement					
, , , , , _	· are subject to restric	cion and/or	CICCIIOII ICC	quirement.					
Application Papers									
•	ation is objected to by th			_					
	g(s) filed on is/are			-					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
·	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or	declaration is objected to	o by the Exa	aminer. Not	e the attached Offic	e Action or form P	ΓΟ-152.			
Priority under 35 U.	S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
	on's Patent Drawing Review (Fure Statement(s) (PTO-1449 or			4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:	Date	O-152)			

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DETAILED ACTION

This requirement is made in response to the decision regarding applicant's petition to withdraw restriction filed September 29, 2005.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 34-50, drawn to a method of eliminating or reducing adipose tissue in a patient by administration of a substance that is a protein affecting fat metabolism or a peptide having functionality that kills fat cells, including those that are cytokine regulatory agents, beta-adrenergic stimulators or alpha-2 adrenergic inhibitors, classifiable in class 435, subclass 6.

 Election of this group requires a further election of species as set forth below.
- II. Claims 35, 36, 38, 40, 42 and 46-50, drawn to a method of eliminating or reducing adipose tissue in a patient by administration of a substance that is an antisense RNA molecule which knocks out the specific activity of a protein needed for fat cell maintenance or a DNA that induces expression of apoptosis-inducing factors including those that are cytokine regulatory agents, beta-adrenergic stimulators or alpha-2 adrenergic inhibitors, classifiable in class 514, subclass 44.
- III. Claims 35, 36, 38, 40, 42 and 46-50, drawn to a method of eliminating or reducing adipose tissue in a patient by administration of a substance that is a drug that kills fat cells including those that are cytokine regulatory

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agents, beta-adrenergic stimulators or alpha-2 adrenergic inhibitors, classifiable in class 514, subclass 1. <u>Election of this group requires a</u> further election of species as set forth below.

The inventions are distinct, each from the other because of the following reasons:

Inventions I-III are directed to related processes. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j). In the instant case, the inventions are directed to use of different products. The invention of claim I uses a substance that is a protein to eliminate or reduce adipose tissue, invention II uses a substance that is a nucleic acid to eliminate or reduce adipose tissue and invention III uses a substance that is a small molecule to eliminate or reduce adipose tissue. Therefore, the inventions do not overlap in scope, are not obvious variants and have different design.

Furthermore, examining any of inventions I-III together would impose a serious search burden. In the instant case, prior art searches of methods of using proteins to eliminate or reduce adipose tissue are not coextensive with prior art searches of methods of using nucleic acids or small molecules to eliminate or reduce adipose tissue. Search of each of these inventions would require different key word searches of each compound and of each distinctive step of the method using divergent patent and non-patent literature databases. The different searches would then require subsequent in-depth analysis of the unrelated prior art literature, placing a serious burden on the

Office in terms of both search and examination. As such, it would be burdensome to perform examination of any of inventions I-III together.

Claim 33 link(s) inventions I-III. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim(s), claim 33. Upon the indication of allowability of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise requiring all the limitations of the allowable linking claim(s) will be rejoined and fully examined for patentability in accordance with 37 CFR 1.104 Claims that require all the limitations of an allowable linking claim will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

Applicant(s) are advised that if any claim(s) including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. In re Ziegler, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Species Election

Claim 33 is generic to the following disclosed patentably distinct species: the proteins TNF- α , leptin, orexin or prolactin and the small molecules methotrexate,

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bromo-deoxyuridine, actinomycin D, nocodazole and brefeldin A. The species of proteins are independent or distinct because the individual proteins are distinct molecules with different physiological functions. For example, leptin is a hormone that acts as a measure of energy state while orexin is involved in sleep regulation.

Therefore, a search of methods of using one protein to eliminate or prevent formation of adipose tissue will not be coextensive with a search of methods of using another protein to eliminate or prevent formation of adipose tissue.

The species of small molecules are independent or because they are distinct molecules with differing design and function. For example methotrexate prevents cellular reproduction by acting as a folic acid antagonist while actinomycin D binds to duplex DNA to prevent transcription. Therefore, a search of methods of using one small molecule to eliminate or prevent formation of adipose tissue will not be coextensive with a search of methods of using another small molecule to eliminate or prevent formation of adipose tissue.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

If group I is elected, applicant must further elect one species of protein.

If group III is elected, applicant must further elect one species of small molecule.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

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remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tracy Vivlemore whose telephone number is 571-272-

2914. The examiner can normally be reached on Mon-Fri 8:45-5:15.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Paras can be reached on 571-272-4517. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Tracy Vivlemore Examiner Art Unit 1635

TV May 8, 2006

JAMES SCHULTZ, PH.D.

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